

90 Debt Service Funds-At a Glance

Mission To accumulate funds to repay principal (money borrowed) and interest due on general obligation bonds and notes issued by the government to finance capital projects (land, buildings, equipment, etc.) with lives greater than one year. Three funds are used to account for this debt:

25104 Schools Debt Service Fund
 20115 GSD Debt Service Fund
 28315 USD Debt Service Fund

Budget Summary

	<u>2013-14</u>	<u>2014-15</u>	<u>2015-16</u>
Expenditures and Transfers:			
Debt Service Funds	\$ 202,953,700	\$ 217,840,000	\$ 221,896,600
Total Expenditures and Transfers	<u>\$ 202,953,700</u>	<u>\$ 217,840,000</u>	<u>\$ 221,896,600</u>
Revenues and Transfers:			
Program Revenue			
Charges, Commissions, and Fees	\$ 0	\$ 0	\$ 0
Other Governments and Agencies	2,292,200	2,380,500	2,781,300
Other Program Revenue	0	0	0
Total Program Revenue	\$ 2,292,200	\$ 2,380,500	\$ 2,781,300
Non-program Revenue	162,481,200	163,467,800	189,694,400
Transfers From Other Funds and Units	20,213,400	51,991,700	29,420,900
Total Revenues	<u>\$ 184,986,800</u>	<u>\$ 217,840,000</u>	<u>\$ 221,896,600</u>
Expenditures Per Capita	\$ 313.06	\$ 330.76	\$ 332.01

Positions Total Budgeted Positions

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These funds are administered by the Department of Finance, and have no separate organization chart.

Debt Service Expenditures by District & Fund

<u>Source Description</u>	<u>FY 2014 Budget</u>	<u>FY 2014 Actual</u>	<u>FY 2015 Budget</u>	<u>FY 2016 Budget</u>
GSD - General Services District				
20115 GSD Debt Service	\$ 108,633,000	\$ 112,817,300	\$120,997,300	\$126,278,400
25104 MNPS Debt Service	<u>69,624,400</u>	<u>69,264,100</u>	<u>76,356,000</u>	<u>78,037,100</u>
Total GSD	\$178,257,400	\$182,081,400	\$197,353,300	\$204,315,500
USD - Urban Services District				
28315 USD Debt Service	<u>\$ 24,696,300</u>	<u>\$ 20,642,800</u>	<u>\$ 20,486,700</u>	<u>\$ 17,581,100</u>
Total USD	\$ 24,696,300	\$ 20,642,800	\$ 20,486,700	\$ 17,581,100
Total General Obligation Debt Service - GSD+USD	<u>\$202,953,700</u>	<u>\$202,724,200</u>	<u>\$217,840,000</u>	<u>\$221,896,600</u>

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Budget Highlights FY 2016

The recommended budget services outstanding debt issues in addition to projects recommended in the FY 2015 capital plan based on the current tax rate. Currently, Metro has approximately \$1,061,628,000 in un-issued general obligation bonds authorized for capital plans in Fiscal Years 2010 through 2015 after the de-authorization of some projects in 2009. The current budget reflects the continued funding of these outstanding authorizations at historical spending levels.

Overview

Debt Financing: Periodically, Metro borrows money to undertake selected capital improvements that are included in the Capital Plan by issuing (or selling) bonds and notes, which are written promises to repay the debt at certain times and with certain interest to bondholders/investors. The specific improvements to be financed are listed in the legislation that authorizes the debt. The proceeds from the sale of the debt are used to pay for those improvements.

Debt service is the process of repaying those bonds and notes, and their interest, over time to bondholders/investors. A small portion of the principal is repaid each year between issuance and maturity. This approximately matches the maturity dates of bonds to the lives of the projects they fund, and keeps Metro from having to make a big payment at one time to make a capital improvement.

Metro does not issue long-term notes and bonds to finance operating expenditures or deficits.

Types of debt: Debt generally falls into the following categories:

- General obligation (GO) debt is payable from taxes, and is backed by the full faith, credit, and taxing power of the government. There is no legal limit to Metro's use of general obligation debt, although issuance requires passage of a Council ordinance. Only general obligation debt is repaid from the three debt service funds (25104, 20115, and 28315).
- Revenue debt is often used to finance projects that will generate revenue. Part of the revenue generated by a project is used to service the debt on the project. It is accounted for through the enterprise or internal service fund that develops the capital project and receives its revenues.
- Limited obligation revenue debt is a newer hybrid form that normally operates as revenue debt, but is backed by certain non-property-tax revenues (defined in the bond covenants) in the event that there are not sufficient revenues to service the debts.

Interest earned by our bondholders/investors is generally held to be exempt from federal and Tennessee taxation.

Structure: Metro's outstanding debt takes three forms:

- Bonds - Long-term debt that usually matures over a period of 20-30 years.
- Notes - Shorter-term debt that is issued for three years, renewable for an additional two terms of three years each. The usual total maturity is 3 to 5 years.
- Commercial paper - Short-term GO obligations with flexible maturities ranging from 2 to 270 days, is issued as cash is needed in blocks of \$100,000 plus

\$1,000 increments. Interest rates are usually lower than bond interest rates.

Notes and commercial paper often provide temporary financing and are retired by issuing longer-term bonds.

Many bonds have "call" provisions that allow Metro to redeem the debt before its scheduled maturity. This is most often done when the debt being called is refunded by issuing new debt for the same period of time but at lower interest rates. The lower interest costs save Metro money over the remaining life of the bond issue.

Legal Limitations: There is no legal debt margin limitation on GSD debt. Section 7.08 of the Charter limits the USD total net bonded indebtedness payable from USD ad valorem taxes, after deduction of sinking funds for the payment of principal, to 15% of the USD assessed valuation of taxable property. At June 30, 2009, the taxable property was valued at \$11.211 billion, so the 15% limit was \$1.682 billion. With only \$144.05 million of applicable debt (1.25% of valuation), the margin was \$1.541 billion.

Bond Ratings: Metro holds excellent investment-grade ratings from two independent rating agencies (Moody's Aa2 and Standard & Poor's AA). These ratings are based on both the city's financial health and available reserves for paying off debt. Each agency has its own rating system; ratings of the two agencies cannot necessarily be compared to each other. For explanations of the ratings, visit each agency's web site.

Some bonds' scheduled payment of principal and interest is privately insured by Ambac Assurance Corporation, the Financial Guaranty Insurance Company (FGIC), MBIA Insurance or Financial Security Assurance, Inc. (FSA).

Debt Policies: The following guidelines are used in managing debt service funds:

- USD general obligation debt is subject to the legal limitation noted above.
- Debt is not issued above the capacity provided by current revenue sources (including property taxes at the current rate) plus anticipated normal growth; debt is not issued in anticipation of a not-yet-approved property tax increase.
- When planning future debt capacity, normal revenue growth is projected conservatively.
- The financing of an improvement will not exceed its useful life. In a multi-purpose bond package, the package maturities will reflect the mix of project lives funded by the package; the average life of the bonds cannot exceed the average life of the projects.
- General obligation issues are sold either by negotiated sale or by bid in public offering; a bid sale is awarded to the bidder with the lowest true interest cost or through negotiated offering.
- Bond issues may be considered for refunding when lower interest rates on the new bonds will result in a 3% or better net present value savings over the old bonds. The term of the refunding bonds will not exceed the terms of the bonds being refunded.

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Revenue Sources: Revenues for all three funds are detailed in the budget ordinance. The GSD and USD Debt Service Funds (funds 20115 & 28315) are funded primarily by a dedicated portion of the property tax levies. The GSD Debt Service Fund also receives \$3.2 million from the GSD General Fund (fund 10101) for stadium debt, and the Schools Debt Service Fund (fund 25104) receives substantial schools-related sales taxes.

Capital Expenditures and the Budget: The discussion of Capital Improvements in Section A of this book describes how these funds relate to the operating budget.

Recent Bond Issues: The Recent Bond Issues table summarizes recent bond issues. Note that only the general obligation issues are serviced through the GSD, USD, and Schools Debt Service funds; the revenue issues are serviced through non-tax sources. Future debt service requirements are listed on the next page.

Comparative Debt Statistics: The Comparable Debt Statistics table uses standard indicators to measure debt burden levels and trends.

Comparative Debt Statistics

Fiscal Year	Net Debt to Assessed Valuation		Net Debt Per Capita	Debt Service to Total Expenditures
	GSD+USD	USD only		
2001	8.89%	0.60%	1,758.64	9.2%
2002	7.50%	1.08%	1,721.58	9.4%
2003	6.94%	0.94%	1,634.61	10.0%
2004	7.49%	1.06%	1,730.99	9.8%
2005	8.46%	1.10%	1,992.91	9.4%
2006	9.76%	1.16%	2,629.23	9.8%
2007	8.97%	1.15%	2,475.02	10.0%
2008	10.23%	1.36%	2,681.96	10.0%
2009	9.35%	1.25%	2,450.19	10.0%
2010	9.77%	1.16%	2,954.43	9.5%
2011	9.64%	1.14%	2,954.26	8.8%
2012	9.88%	1.31%	2,971.28	4.4%
2013	11.62%	1.41%	3,433.01	6.6%
2014	10.92%	1.32%	3,349.79	9.1%

Source: Comprehensive Annual Financial Reports for each year

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Recent Bond Issues						
Issue	Date Issued	Amount & interest rate	Maturity	Ratings *	Fund *	Comments *
GO Energy Production Facility Refunding Bonds, Series nb2002A	4/01/02	\$31,065,000 2.000-5.250%	2002 to 2014	M: Aa2 S: AA F: AA+	U	Advance refund of outstanding Energy Production Facility Revenue Bonds Series 1997A, 1997B, and 1994 related to the former Nashville Thermal Transfer Corporation.
GO Multi-Purpose Bonds, Series 2004	12/15/04	\$65,755,000 4.000-5.250%	2007 to 2024	M: Aa2 S: AA F: AA+	G U S	Finance the retirement of a portion of the GO TAN commercial paper.
GO Public Improvement Refunding Bonds, Series 2004	09/01/04	\$51,340,000 3.000-5.000%	2004 to 2017	M: Aa2 S: AA F: AA+	G S	Advance refund portions of outstanding GO MP Improvement Bonds, Series 1996A
General Obligation Multi-Purpose Bonds, Series 2005A	05/05/05	\$150,275,000 4.250-5.000%	2005 to 2025	M: Aa2 S: AA F: AA+	G U S	Finance the retirement of a portion of the General Obligation Bond Anticipation Notes (commercial paper). Bonds maturing in 2016-2025 are MBIA-Insured.
General Obligation Multi-Purpose Refunding Bonds, Series 2005B	05/05/05	\$190,460,000 4.000-5.000%	2005 to 2025	M: Aa2 S: AA F: AA+	G U S	Advance refund portions of outstanding bonds: GO MP Series 1997A, GO MP Series 1999, Gen. Improvement and Refunding, Series 2001A B, and GO MP Series 2003.
General Obligation Bonds, Series 2005C	11/01/05	\$214,000,000 3.625-5.000%	2005 to 2026	M: Aa2 S: AA F: AA+	G U S	Finance the retirement of a portion of the G O Anticipation Notes (Commercial Paper), and general government projects.
General Obligation Refunding Bonds, Series 2006A	05/11/06	\$60,805,000 3.60%	2006 to 2026	M: Aa2/VMIG1 S: AA/A-1 F: AA+/F1+	G	Current Refund of outstanding general obligation public improvement bonds, Series 1996 held in interest rate hedging agreement.
General Obligation Bonds, Series 2006B	06/23/06	\$203,315,000 4.00-5.00%	2006 to 2026	M: Aa S: AA F: AA+	G U S	Finance the retirement of a portion of the G O Anticipation Notes (Commercial Paper), and general government projects.
General Obligation Refunding Bonds, Series 2007A	04/24/07	\$186,890,000 4.00%-5.00%	2008 to 2028	M: Aa2 S: AA F: AA	G U S	Current and Advance refund portions of outstanding bonds: GO Bonds Series 2003, GO MP & Refunding Series 1999, Series 1997A and GO Refunding Series 1997
GO Tax Anticipation Notes (TAN) commercial Paper, Series 2007A	07/11/07	Up to \$400,000,000 Market rates	Up to 270 days after issue	M: P-1 S: A-1+	G U S	Provide interim financing of various capital projects and refinance existing G O Bond Anticipation notes of 2002.
Water and Sewer Revenue Refunding Bonds, Series 2007	07/17/07	\$36,240,000 4.25%-5.00%	2009 to 2016	M: Aaa S: AAA	-	Non-GO. Current refund of W&S Revenue Bonds, Series 1986 (\$13,390,000) maturing in 2016 and W&S Revenue Refunding Bonds, Series 1996 (\$23,925,000) maturing 2009-2014.
Water and Sewer Revenue Refunding Bonds, Series 2008A	02/22/08	\$122,530,000 3.25%-5.25%	2011 to 2022	M: Aa3 S: AA- F: AA-	-	Non-GO. Current refund of W&S Revenue Refunding Bonds, Series 1998A (\$127,775,000) maturing in 2011-2019, and W&S Revenue Bonds, Series 1998B (\$785,000) maturing 2011-2012.

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Water and Sewer Revenue Refunding Bonds, Series 2008B (Taxable)	02/22/08	\$27,950,000 3.45%-4.84%	2009 to 2016	M: Aa3 S: AA- F: AA-	--	Non-GO. Current refund of W&S Revenue Refunding Bonds, Series 1986A (\$27,525,000) maturing in 2016.
General Obligation Bonds, Series 2008A	03/4/08	\$308,000,000 4.00-5.00%	2011 to 2028	M: Aa2 S: AA F: AA	G U S	Finance the retirement of a portion of the General Obligation Anticipation Notes (Commercial Paper), and general government projects.
Water & Sewer Revenue Bond Anticipation Notes (BAN) Commercial Paper Series A & B	11/12/09	Up to \$200,000,000 Market Rate	Up to 6 yrs after issue	M: P-1 S: A-1+ F: F1+	--	Provide interim financing of various capital projects and refinance existing projects as relate to Water and Sewer prior to the issuing of bonds.
General Obligation Improvement and Refunding Bonds, Series 2010A	06/10/10	\$296,750,000 2.75 - 5.00%	2010 to 2026	M: Aa1 S: AA	G U S	Finance the retirement of a portion of the G.O Anticipation Notes (Commercial Paper), and advance refund portions of outstanding bonds.
General Obligation Improvement Bonds Federally Taxable (BAB's), Series 2010B	06/10/10	\$252,005,000 5.71%	2010 to 2034	M: Aa1 S: AA	G U S	Finance the retirement of a portion of the General Obligation Anticipation Notes (Commercial Paper), and general government projects.
General Obligation Refunding Bonds Federally Taxable (BAB's), Series 2010C	06/10/10	\$51,485,000 2.21 - 3.23%	2010 to 2015	M: Aa1 S: AA	G U S	Advance refund portions of outstanding bonds.
General Obligation Refunding Bonds, Series 2010D	09/21/10	\$291,360,000 1.50 - 5.00%	2010 to 2024	M: Aa1 S:AA	G U S	Advance refund portions of outstanding bonds.
Water and Sewer Revenue Refunding Bonds, Series 2010A	12/9/10	\$104,050,000 3.00 - 5.00%	2010 to 2027	M: Aa3 S: AA	--	Non-GO. Advance refund portions of outstanding W&S Revenue Refunding Bonds.
Water and Sewer Revenue Bonds Federally Taxable, Series 2010B (BAB-Direct Payment)	12/9/10	\$135,000,000 6.39 - 6.57%	2010 to 2037	M: Aa3 S: AA	--	Finance the retirement of currently outstanding W&S Commercial Paper Bond Anticipation Notes and finance additional capital projects.
Water and Sewer Revenue Bonds Federally Taxable Series 2010C (Recovery Zone Economic Dev. Bonds)	12/9/10	\$75,000,000 6.69%	2010 to 2041	M: Aa3 S: AA	--	Finance Water system capital projects.
Water and Sewer Revenue Refunding Bonds Federally Taxable Series 2010D	12/9/10	\$7,610,000	2010 to 2018	M: Aa3 S: AA	--	Non-GO. Advance refund portions of outstanding W&S Revenue Refunding Bonds.
General Obligation Refunding Bonds, Series 2011	09/29/11	\$89,480,000 2.00 - 5.00%	2011 to 2023	M: Aa1 S: AA	G U S	Advance refund portions of outstanding bonds.
General Obligation Refunding Bonds, Series 2012	02/02/12	\$227,110,000 2.00 - 5.00%	2012 to 2025	M: Aa1 S: AA	G U S	Advance refund portions of outstanding bonds.
Water and Sewer Revenue Refunding Bonds, Series 2012	02/02/12	\$129,625,000 1.00 - 5.00%	2012 to 2023	M: A1 S: A+	--	Non-GO. Advance refund portions of outstanding W&S Revenue Refunding Bonds.
General Obligation Improvement Bonds Federally Taxable, Series 2012	08/15/12	\$6,440,000 3.367%	2027	M: Aa1 S: AA	G	Finance the costs of certain public projects of the Metropolitan Government for qualified energy conservation improvements.

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District Energy System Revenue and Tax Refunding Bonds, Series 2012A	08/15/12	\$47,450,000 2.00 – 5.00%	2013 To 2033	M: Aa1 S: AA	U	Advance refund of outstanding Energy Production Facility Revenue Bonds.
General Obligation Refunding Bonds, Series 2012B	08/15/12	\$140,345,000 .320 – 2.76%	2013 To 2024	M: Aa1 S: AA	G U S	Advance refund of portions of outstanding bonds.
General Obligation Refunding Bonds, Series 2013	02/21/13	\$245,485,000 2.00 – 5.00%	2015 To 2027	M: Aa1 S: AA	G U S	Advance refund of portions of outstanding bonds.
Water and Sewer Revenue Bonds, Series 2013	04/25/13	\$237,930,000 3.00 – 5.00%	2022 To 2033	M: Aa3 S: AA-	–	Retire outstanding Water and Sewer commercial paper and to fund a debt reserve fund.
General Obligation Improvement Bonds, Series 2013A	05/09/13	\$374,665,000 3.00 – 5.00%	2020 To 2033	M: Aa1 S: AA	G U S	Retire outstanding General Obligation Commercial paper, and to finance capital projects.
General Obligation Extendable Commercial Paper Notes 2014 Program	07/09/14	Up to \$200,000,000 Market rates	Up to 90 days issue with option to extend up to 270 days after issue	M: P-1 S: A-1+	G U S	Provide interim financing of various capital projects and to refinance existing general obligation commercial paper notes.
General Obligation Commercial Paper Series A-1	07/09/14	Up to \$300,000,000 Market rates	Up to 270 days after issue	M: P-1 S: A-1+	G U S	Provide interim financing of various capital projects and to refinance existing general obligation commercial paper notes.
General Obligation Commercial Paper Series A-2	07/09/14	Up to \$200,000,000 Market rates	Up to 270 days after issue	M: P-1 S: A-1+	G U S	Provide interim financing of various capital projects and to refinance existing general obligation commercial paper notes.
General Obligation Refunding Bonds, Series 2015A	02/19/15	\$59,730,000 5%	2021 To 2026	M: Aa2 S: AA	G U S	Advance refund of portions of outstanding bonds.
General Obligation Refunding Bonds, Series 2015B (Taxable)	02/19/15	\$103,980,000 .300 – 3.493%	2015 To 2029	M: Aa2 S: AA	G U S	Advance refund of portions of outstanding bonds
Water and Sewer Revenue Commercial Paper Notes, Series A	04/13/15	Up to \$200,000,000 Market Rate	Up to 270 days after Issue	M: P-1 S: A-1+	–	Provide interim financing of various capital projects and refinance existing projects as relate to Water and Sewer prior to the issuing of bonds.
Water and Sewer Extendable Commercial Paper Notes, 2015 Program	04/15/15	Up to \$100,000,000 Market Rate	Up to 90 days issue with option to extend up to 270 days after issue	M: P-1 S: A-1+	–	Provide interim financing of various capital projects and refinance existing projects as relate to Water and Sewer prior to the issuing of bonds.

* **Ratings:** M = Moody's, S = Standard & Poor's, F = Fitch, I = Insured (see text). Maturity dates are underlined.
Fund: This code shows the debt service fund(s) used to repay this issue. G = GSD, U = USD, S = Schools.
Comments: Non-GO = Not a general obligation debt, but included in this table for completeness.

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GENERAL OBLIGATION BONDS PAYABLE
General Services District (GSD)

Bonds and Notes Payable at June 30, 2014

	Interest Rate	Date of Issue	Date of Final Maturity	Amount of Issue	June 30, 2014	
					Principal	Interest
For General Purposes:						
GSD G.O Pub Impr. Refunding Bonds, Series 2004	3.250 - 5.00	Sept. 1, 2004	Nov. 14, 2016	48,367,055	19,327,038	1,481,559
GSD G.O. Multi-Purpose Bonds, Series 2005A	4.250 - 5.25	May 1, 2005	Jan. 1, 2025	49,817,419	4,714,056	356,425
GSD G.O. MP Refunding Bonds, Series 2005B	4.125 - 5.00	May 1, 2005	Jan. 1, 2020	108,212,477	28,597,458	2,300,950
GSD G.O. Multi-Purpose Bonds, Series 2005C	3.625 - 5.00	Nov. 1, 2005	Feb. 1, 2026	150,292,131	6,703,450	335,172
GSD G.O. Bonds, Series 2006B	4.00 - 5.00	Jun.15, 2006	Feb. 1, 2026	113,783,394	15,331,363	1,040,258
GSD G.O. Refunding Bonds, Series 2007A	4.00 - 5.00	April 15, 2007	May 15, 2030	125,908,003	79,791,515	30,659,528
GSD G.O. Bonds, Series 2008A	4.00 - 5.00	Mar. 15, 2008	Jan. 1, 2028	174,880,073	11,787,370	2,357,475
GSD G.O. Improvement and Refunding Bonds, Series 2010A	2.75 - 5.00	Jun.10, 2010	July 1, 2026	159,008,728	159,008,728	49,136,730
GSD G.O. Improvement Bonds Federally Taxable (BAB's), Series 2010B	5.71	Jun.10, 2010	July 1, 2034	138,046,756	138,046,756	133,383,629
GSD G.O. Refunding Bonds Federally Taxable (BAB's), Series 2010C	2.21 - 3.23	Jun.10, 2010	July 1, 2015	25,653,536	21,102,239	517,686
GSD G.O. Refunding Bonds, Series 2010D	1.50 - 5.00	Sept. 21, 2010	July 1, 2024	144,150,016	126,316,793	32,564,801
GSD G.O. Refunding Bonds, Series 2011	2.00 - 5.00	Sept. 16, 2011	July 1, 2023	49,712,377	44,124,812	13,667,400
GSD G.O. Refunding Bonds, Series 2012	2.00 - 5.00	Jan. 20, 2012	July 1, 2025	154,956,701	154,956,701	58,450,719
GSD G.O. Improvement Bonds (QECCB Federally Taxable), Series 2012	3.367	Aug. 15, 2012	Aug. 1 2027	6,440,000	6,440,000	2,927,270
GSD G.O. Refunding Bonds (Taxable), Series 2012B	.320 - 2.767	Aug. 15, 2012	July 1, 2024	67,480,283	65,932,052	9,911,496
GSD G.O. Refunding Bonds, Series 2013	3.00 - 5.00	Feb. 21, 2012	July 1, 2027	138,755,487	138,755,487	69,396,551
GSD G.O. Improvement Bonds, Series 2013A	3.00 - 5.00	May 9, 2013	Jan. 1, 2033	253,070,885	253,070,885	175,326,657
Total General Obligation Bonds Payable For General Purposes				1,908,535,321	1,274,006,703	583,814,306
For School Purposes:						
GSD G.O Pub Impr. Refunding Bonds, Series 2004	3.250 - 5.00	Sept. 1, 2004	Nov. 14, 2016	2,972,945	1,187,962	91,066
GSD G.O. Multi-Purpose Bonds, Series 2005A	4.250 - 5.25	May 1, 2005	Jan. 1, 2025	79,503,345	7,523,136	568,815
GSD G.O. MP Refunding Bonds, Series 2005B	4.125 - 5.00	May 1, 2005	Jan. 1, 2020	76,238,996	19,902,645	1,599,008
GSD G.O. Multi-Purpose Bonds, Series 2005C	3.625 - 5.00	Nov. 1, 2005	Feb. 1, 2026	43,740,078	1,950,931	97,550
GSD G.O. Bonds, Series 2006B	4.00 - 5.00	Jun.15, 2006	Feb. 1, 2026	69,160,188	9,318,759	632,365
GSD G.O. Refunding Bonds, Series 2007A	4.00 - 5.00	April 15, 2007	May 15, 2030	58,421,307	36,976,352	14,002,008
GSD G.O. Bonds, Series 2008A	4.00 - 5.00	Mar. 15, 2008	Jan. 1, 2028	95,095,340	6,409,673	1,281,935
GSD G. O Improvement and Refunding Bonds, Series 2010A	2.75 - 5.00	Jun.10, 2010	July 1, 2026	114,567,598	114,567,598	34,283,819
GSD G. O Improvement Bonds Federally Taxable (BAB's), Series 2010B	5.71	Jun.10, 2010	July 1, 2034	70,516,649	70,516,649	68,134,643
GSD G. O Refunding Bonds Federally Taxable (BAB's), Series 2010C	2.21 - 3.23	Jun.10, 2010	July 1, 2015	20,052,863	16,495,203	404,664
GSD G. O Refunding Bonds, Series 2010D	1.50 - 5.00	Sept. 21, 2010	July 1, 2024	120,126,326	105,265,147	27,137,630
GSD G.O. Refunding Bonds, Series 2011	2.00 - 5.00	Sept. 16, 2011	July 1, 2023	32,574,740	29,517,305	8,559,911
GSD G.O. Refunding Bonds, Series 2012	2.00 - 5.00	Jan. 20, 2012	July 1, 2025	53,280,200	53,280,200	20,097,654
GSD G.O. Refunding Bonds (Taxable), Series 2012B	.320 - 2.767	Aug. 15, 2012	July 1, 2024	62,161,564	60,735,363	9,130,284
GSD G.O. Refunding Bonds, Series 2013	3.00 - 5.00	Feb. 21, 2012	July 1, 2027	82,814,365	82,814,365	41,418,408
GSD G.O. Improvement Bonds, Series 2013A	3.00 - 5.00	May 9, 2013	Jan. 1, 2033	84,932,213	84,932,213	58,840,751
Total General Obligation Bonds Payable for School Purposes				1,066,158,717	701,393,501	286,280,511
Total General Obligation Bonds Payable - General Services District				2,974,694,038	1,975,400,204	870,094,817

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GENERAL OBLIGATION BONDS PAYABLE Urban Services District (USD)

Bonds and Notes Payable at June 30, 2014

	Interest Rate	Date of Issue	Date of Final Maturity	Amount of Issue	June 30, 2014	
					Principal	Interest
For General Purposes:						
USD G.O. (Tax Exempt) Thermal Refunding Bonds, 2002A	4.250 - 5.25	Apr. 1, 2002	July 1, 2014	31,065,000	2,645,000	69,430
USD G.O. Multi-Purpose Bonds, Series 2005A	4.250 - 5.25	May 1, 2005	Jan. 1, 2025	13,979,236	1,322,808	100,016
USD G.O. MP Refunding Bonds, Series 2005B	4.125 - 5.00	May 1, 2005	Jan. 1, 2020	6,008,527	1,579,897	127,042
USD G.O. Multi-Purpose Bonds, Series 2005C	3.625 - 5.00	Nov. 1, 2005	Feb. 1, 2026	19,967,791	890,619	44,528
USD G.O. Bonds, Series 2006B	4.00 - 5.00	Jun.15, 2006	Feb. 1, 2026	20,371,418	2,744,878	186,252
USD G.O. Refunding Bonds, Series 2007A	4.00 - 5.00	April 15, 2007	May 15, 2030	2,560,690	1,622,133	620,438
USD G.O. Bonds, Series 2008A	4.00 - 5.00	Mar. 15, 2008	Jan. 1, 2028	38,024,587	2,562,957	512,591
USD G.O. Improvement and Refunding Bonds, Series 2010A	2.75 - 5.00	Jun.10, 2010	July 1, 2026	22,899,473	22,899,473	5,796,507
USD G.O. Improvement Bonds Federally Taxable (BAB's), Series 2010B	5.71	Jun.10, 2010	July 1, 2034	43,441,595	43,441,595	41,974,166
USD G.O. Refunding Bonds Federally Taxable (BAB's), Series 2010C	2.21 - 3.23	Jun.10, 2010	July 1, 2015	5,488,045	4,514,389	110,749
USD G.O. Refunding Bonds, Series 2010D	1.50 - 5.00	Sept. 21, 2010	July 1, 2024	25,925,413	22,718,105	5,856,787
USD G.O. Refunding Bonds, Series 2011	2.00 - 5.00	Sept. 16, 2011	July 1, 2023	6,688,796	6,688,796	2,306,315
USD G.O. Refunding Bonds, Series 2012	2.00 - 5.00	Jan. 20, 2012	July 1, 2025	18,873,099	18,873,099	7,119,061
USD G.O. Refunding Bonds (Taxable), Series 2012B	.320 - 2.767	Aug. 15, 2012	July 1, 2024	7,471,610	7,300,185	1,097,429
USD G.O. Refunding Bonds, Series 2013	3.00 - 5.00	Feb. 21, 2012	July 1, 2027	23,915,148	23,915,148	11,960,816
USD G.O. Improvement Bonds, Series 2013A	3.00 - 5.00	May 9, 2013	Jan. 1, 2033	30,135,613	30,135,613	20,877,851
Total General Obligation Bonds Payable (governmental activities)				316,816,041	193,854,695	98,759,978
USD G.O. Multi-purpose Bonds, Series 2005A (District Energy System) (1)	4.250 - 5.25	May 1, 2005	Jan. 1, 2025	7,695,000	765,000	57,745
USD G.O. Improvement & Refunding Bonds, Series 2010A (1)	2.21 - 5.71	Jun.10, 2010	July 1, 2034	274,201	274,201	51,982
USD G.O. Refunding Bonds Federally Taxable (BAB's), Series 2010C (1)	2.21 - 3.23	Jun.10, 2010	July 1, 2015	290,556	273,169	7,983
USD G.O. Refunding Bonds, Series 2010D (DES)	1.50 - 5.00	Sept. 21, 2010	July 1, 2024	1,158,245	1,014,955	261,657
USD G.O. Refunding Bonds, Series 2011 (DES)	2.00 - 5.00	Sept. 16, 2011	July 1, 2023	504,087	504,087	219,951
District Energy System Revenue Refunding Bonds, Series 2012A	2.000 - 5.000	Aug. 15, 2012	Oct. 1, 2033	47,450,000	45,960,000	23,106,575
USD G.O. Refunding Bonds (Taxable), Series 2012B	.320 - 2.767	Aug. 15, 2012	July 1, 2024	3,231,543	3,157,400	474,649
USD G.O. Improvement Bonds, Series 2013A	3.00 - 5.00	May 9, 2013	Jan. 1, 2033	6,526,289	6,526,289	4,521,392
Total General Obligation Bonds Payable (business-type activities)				67,129,921	58,475,101	28,701,934
Total General Obligation Bonds Payable - Urban Services District				383,945,962	252,329,796	127,461,912
REVENUE BONDS PAYABLE						
Dept of Water and Sewerage Rev. Refunding Bonds of 2007	4.25 - 5.00	Jul. 15, 2007	Jan. 1, 2016	36,240,000	12,870,000	729,600
Dept of Water and Sewerage Rev. Refunding Bonds of 2008A	3.250 - 5.250	Feb. 15, 2008	Jan. 1, 2022	122,530,000	101,720,000	25,702,762
Dept of Water and Sewerage Rev. Refunding Bonds, Series 2010A	3.00 - 5.00	Dec. 9, 2010	Jul. 1, 2027	104,050,000	104,050,000	34,388,875
Dept of Water and Sewerage Rev. Bonds Federally Taxable, Series 2010B(B)	6.393 - 6.568	Dec. 9, 2010	Jul. 1, 2037	135,000,000	135,000,000	165,819,423
Dept of Water and Sewerage Rev. Bonds Federally Taxable, Seies 2010C	6.693	Dec. 9, 2010	Jul. 1, 2041	75,000,000	75,000,000	129,833,156
Dept of Water and Sewerage Rev. Refunding Bonds, Federally Taxable Serie	4.255 - 4.791	Dec. 9, 2010	Jul. 1, 2018	7,610,000	7,610,000	1,199,322
Dept of Water and Seweage Rev. Refunding Bonds, Series 2012	2.00 - 5.00	Jan. 2, 2012	Jul. 1, 2025	129,625,000	122,505,000	34,382,875
Dept of Water and Sewerage Revenue Bonds, Series 2013	1.89 - 5.00	Apr. 25, 2013	Jul. 1, 2033	237,930,000	237,930,000	231,739,475
Total Revenue Bonds Payable - Department of Water and Sewerage				847,985,000	796,685,000	623,795,488
Total Revenue Bonds Payable - Urban Services District				847,985,000	796,685,000	623,795,488
Total Bonds Payable - Urban Services District				1,231,930,962	1,049,014,796	751,257,400

90 Debt Service Funds-At a Glance

Future Debt Service Requirements for Debt Outstanding at 06/30/2014

General Obligation Debt (Debt Service Funds)

Fiscal Year	GSD Debt Service			GSD School Debt Service		
	Principal	Interest	Total	Principal	Interest	Total
2015	60,734,952	59,551,388	120,286,340	38,585,773	31,712,620	70,298,393
2016	61,761,556	56,923,078	118,684,634	41,005,098	30,104,414	71,109,512
2017	65,638,948	53,697,989	119,336,937	45,797,795	27,887,725	73,685,520
2018	64,572,980	51,242,824	115,815,804	46,659,681	26,160,772	72,820,453
2019	68,622,521	48,220,135	116,842,656	48,474,525	24,088,723	72,563,248
2020	74,723,046	45,205,784	119,928,830	42,040,096	22,222,200	64,262,296
2021	78,342,845	41,796,535	120,139,380	43,668,130	20,346,591	64,014,721
2022	79,336,274	37,943,232	117,279,506	45,032,271	18,243,836	63,276,107
2023	87,720,343	33,919,041	121,639,384	43,640,190	16,147,525	59,787,715
2024	88,284,878	29,757,990	118,042,868	51,330,740	13,990,149	65,320,889
2025	88,792,309	25,934,965	114,727,274	48,890,800	11,915,832	60,806,632
2026	77,504,463	22,183,524	99,687,987	40,688,007	9,941,080	50,629,087
2027	66,862,789	18,652,278	85,515,067	33,815,997	8,118,264	41,934,261
2028	67,149,701	15,317,465	82,467,166	28,832,024	6,531,147	35,363,171
2029	39,737,905	12,567,951	52,305,856	16,283,121	5,336,006	21,619,127
2030	41,528,714	10,474,543	52,003,257	16,998,098	4,467,252	21,465,350
2031	40,282,057	8,287,610	48,569,667	16,308,556	3,560,706	19,869,262
2032	42,103,195	6,143,670	48,246,865	17,025,799	2,678,954	19,704,753
2033	44,013,153	3,903,687	47,916,840	17,777,169	1,758,796	19,535,965
2034	17,808,774	1,563,129	19,371,903	9,097,027	798,473	9,895,500
2035	18,485,300	527,488	19,012,788	9,442,604	269,446	9,712,050
2036						
Total	1,274,006,703	583,814,306	1,857,821,009	701,393,501	286,280,511	987,674,012

90 Debt Service Funds-At a Glance

Future Debt Service Requirements for Debt Outstanding at 06/30/2014

General Obligation Debt (Debt Service Funds)

Fiscal Year	Water Service (USD)			USD Debt Service		
	Principal	Interest	Total	Principal	Interest	Total
2015	31,500,000	41,367,233	72,867,233	12,464,275	11,666,057	24,130,332
2016	20,275,000	40,175,458	60,450,458	9,353,346	11,226,793	20,580,139
2017	28,795,000	39,028,808	67,823,808	11,543,257	10,767,500	22,310,757
2018	37,475,000	37,476,030	74,951,030	13,552,339	10,316,207	23,868,546
2019	38,225,000	35,654,524	73,879,524	13,287,954	9,685,009	22,972,963
2020	39,120,000	33,743,634	72,863,634	11,636,858	9,170,990	20,807,848
2021	40,180,000	31,823,496	72,003,496	12,194,025	8,650,465	20,844,490
2022	40,985,000	29,812,021	70,797,021	12,391,455	8,049,760	20,441,215
2023	31,780,000	27,663,509	59,443,509	13,124,467	7,444,327	20,568,794
2024	22,235,000	26,448,384	48,683,384	14,809,382	6,822,733	21,632,115
2025	15,945,000	25,539,009	41,484,009	14,676,891	6,178,633	20,855,524
2026	16,720,000	24,747,784	41,467,784	13,167,530	5,529,057	18,696,587
2027	17,545,000	23,901,434	41,446,434	14,171,215	4,867,248	19,038,463
2028	18,430,000	22,945,607	41,375,607	13,748,275	4,179,008	17,927,283
2029	19,185,000	21,945,278	41,130,278	10,598,973	3,567,206	14,166,179
2030	19,990,000	20,883,312	40,873,312	11,048,190	3,024,331	14,072,521
2031	20,905,000	19,699,453	40,604,453	11,449,387	2,458,661	13,908,048
2032	21,860,000	18,451,344	40,311,344	11,931,005	1,872,133	13,803,138
2033	22,880,000	17,135,511	40,015,511	12,444,677	1,245,031	13,689,708
2034	23,940,000	15,759,250	39,699,250	8,919,199	574,772	9,493,971
2035	25,055,000	14,319,833	39,374,833	5,817,096	165,991	5,983,087
2036	26,220,000	12,814,244	39,034,244			
2037	27,445,000	11,239,340	38,684,340			
2038	28,720,000	9,588,611	38,308,611			
2039	30,025,000	7,852,927	37,877,927			
2040	31,330,000	6,034,798	37,364,798			
2041	32,680,000	4,145,639	36,825,639			
2042	34,015,000	2,256,719	36,271,719			
2043	16,280,000	1,003,400	17,283,400			
2044	16,945,000	338,898	17,283,898			
Total	796,685,000	623,795,488	1,420,480,488	252,329,796	127,461,912	379,791,708

90 Debt Service Funds-At a Glance

Highlights from the Metropolitan Government of Nashville and Davidson County's Debt Management Policy

The purpose of the Policy is to establish and document the objectives and practices for debt management for the Metropolitan Government and to assist all concerned parties in understanding the Metropolitan Government's approach to debt management.

Policy Statement

In managing its debt, it is the Metropolitan Government's policy to:

- Achieve the lowest cost of capital
- Ensure high credit quality
- Assure access to the capital credit markets
- Preserve financial flexibility
- Manage interest rate risk exposure

Goals & Objectives

Debt policies and procedures are tools that ensure that financial resources are adequate to meet the Metropolitan Government's long-term financing objectives. In addition, the Policy helps to ensure that financings undertaken by the Metropolitan Government satisfy certain clear objective standards which allow the Metropolitan Government to protect its financial resources in order to meet its short-term financing and long-term capital needs. The adoption of clear and comprehensive financial policies enhances the internal financial management of the Metropolitan Government.

Issuance Process

The Metropolitan Government charter, which was approved by referendum on June 28, 1962, as amended, and Title 9, Chapter 21 of the Tennessee Code Annotated authorizes the Metropolitan Government to issue general obligation bonds subject to the adoption of a bond resolution by the Metropolitan Council. Other sections of the Tennessee Code Annotated and the Federal Tax Code may govern the issuance or structure of the Metropolitan Government's bonds.

The Metropolitan Government strongly prefers a competitive issuance process for all debt issuances. The Metropolitan Government will consider a negotiated issuance or private placement process only where it is clear that such process is in the best interests of the Metropolitan Government.

Credit Quality and Credit Enhancement

The Metropolitan Government's debt management activities will be conducted to receive the highest credit ratings possible, consistent with the Metropolitan Government's financing objectives. The Director of Finance will be responsible for maintaining relationships and communicating with the rating agencies that assign

ratings to the Metropolitan Government's debt. The Director of Finance will provide the rating agencies with periodic updates of the general financial condition of the Metropolitan Government. Full disclosure of operations and open lines of communication shall be maintained with the rating agencies. The Metropolitan Government, together with the Financial Advisor, shall prepare presentations to the rating agencies to assist credit analysts in making an informed decision. The Director of Finance shall be responsible for determining whether or not a rating shall be requested on a particular financing, and which of the major rating agencies will be asked to provide such rating.

The Metropolitan Government will make an annual credit presentation to the Metropolitan Council, explaining the Metropolitan Government's current rating, rating agency views on the Metropolitan Government's performance and current items which may positively or adversely affect the Metropolitan Government's credit rating.

The Metropolitan Government will consider the use of credit enhancements on a case-by-case basis, evaluating the economic benefit versus cost for each case. Only when clearly demonstrable savings can be shown shall an enhancement be considered.

Debt Affordability

It is the intent of the Metropolitan Government to promote the most efficient and cost-effective use of debt financing in order to facilitate long-term access to capital while ensuring that financial leveraging decisions do not negatively impact the Metropolitan Government's annual operations. To this end, the government will periodically review basic measures of debt affordability, including but not limited to, average life of new debt, percentage of principal paid within 10 years, per capita debt/per capita income, per capita debt/per capita assessed value, and debt service/general fund operating expenses.

Bond Structure

The Metropolitan Government shall establish all terms and conditions relating to the issuance of bonds, and will invest all bond proceeds pursuant to the terms of the Metropolitan Government's Investment Policy. Unless otherwise authorized by the Metropolitan Government, the following shall serve as bond requirements:

1. **Term.** Capital improvements financed through the issuance of debt will be financed for a period not to exceed the useful life of the improvements with a maximum of twenty (20) years. In certain circumstances where the debt meets legal requirements and is in the best interest of the Metropolitan Government this period may be extended to a maximum of thirty (30) years.

90 Debt Service Funds-At a Glance

- Capitalized Interest.** From time to time certain financings may require the use of capitalized interest from the issuance date until the Metropolitan Government has beneficial use and/or occupancy of the financed project. Interest shall not be funded (capitalized) beyond three (3) years or a shorter period if further restricted by statute. Interest earnings may, at the Metropolitan Government's discretion, be applied to extend the term of capitalized interest but in no event beyond the term statutorily authorized or three years, whichever is shorter.
- Debt Service Structure.** Debt issuance shall be planned to achieve relatively level debt service for an individual bond issue, while still matching debt service to the useful life of the capital asset financed by the debt. The Metropolitan Government shall avoid the use of bullet or balloon maturities except in those instances where these maturities serve to make existing overall debt service level or match a specific income stream.
- Call Provisions.** In general, the Metropolitan Government's securities will include a call feature, which is no later than ten (10) years from the date of delivery of the bonds. The Metropolitan Government will avoid the sale of long-term non-callable bonds absent careful evaluation by the Metropolitan Government with respect to the value of the call option.
- Original Issuance Discount/Premium.** Bonds with original issuance discount/premium will be permitted.
- Deep Discount Bonds.** Deep discount bonds may provide a lower cost of borrowing in certain markets. The Metropolitan Government will carefully consider their value and effect on any future refinancing as a result of the lower-than-market coupon.
- Synthetic Debt.** The Metropolitan Government will consider the limited use of swaps, derivatives and other forms of synthetic debt as a hedge against future interest rate risk when appropriate and in accordance with state guidelines. The Metropolitan Government will not use structured products for speculative purposes. The Metropolitan Government will consider the use of structured products when it is able to gain a comparative borrowing advantage and is able to quantify and understand the potential risks or to achieve fixed and/or variable rate exposure targets.

Types of Debt

When the Metropolitan Government determines that the use of debt is appropriate, the following criteria will be utilized to evaluate the type of debt to be issued.

Structure

- General Obligation Bonds.** The Metropolitan Government may issue general obligation bonds

supported by the full faith and credit of the Metropolitan Government. General obligation bonds shall be used to finance capital projects that do not have independent creditworthiness and significant ongoing revenue streams. The Metropolitan Government may also use its general obligation pledge to support other bond issues, if such support improves the economics of the other bond issue and is used in accordance with these guidelines.

- Revenue Bonds.** The Metropolitan Government may issue revenue bonds, where repayment of the bonds will be made through revenues generated from other sources. Revenue bonds will typically be issued for capital projects which can be supported from project or enterprise-related revenues.

Duration

- Long-Term Debt.** The Metropolitan Government may issue long-term debt where it is deemed that capital improvements should not be financed from current revenues or short-term borrowings. Long-term borrowing will not be used to finance current operations or normal maintenance. Long-term debt will be self-supporting and structured such that financial obligations do not exceed the expected useful life of the project.
- Short-Term Debt.** Short-term borrowing may be utilized for construction financing, the temporary funding of operational cash flow deficits or anticipated revenues (defined as an assured source with the anticipated amount based on conservative estimates) subject to the following policies:
 - Bond Anticipation Notes (BANs)* in the form of Commercial Paper shall be used only for the purpose of providing financing for the cost of all or any of the public purposes for which Bonds have been authorized and for the payment of principal of outstanding commercial paper.
 - Revenue Anticipation Notes (RANs) and Tax Anticipation Notes (TANs)* shall be issued only to meet cash flow needs consistent with a finding by bond counsel that the sizing of the issue fully conforms to Federal IRS and state requirements and limitations.
 - Lines of Credit* shall be considered as an alternative to other short-term borrowing options. The lines of credit shall be structured to limit concerns as to the Internal Revenue Code.
 - Other Short-Term Debt* may be used when it provides an interest rate advantage or as interim financing until market conditions are more favorable. The Metropolitan Government will determine and utilize the least costly method for short-term borrowing. The Metropolitan Government may issue short-term debt when there is a defined repayment source or amortization of principal.

90 Debt Service Funds-At a Glance

Refinancing Outstanding Debt

The Director of Finance for the Metropolitan Government, with assistance from the Metropolitan Government's Financial Advisor, shall have the responsibility to analyze outstanding bond issues for refunding opportunities. The Metropolitan Government will consider the following issues when analyzing possible refunding opportunities:

1. **Debt Service Savings.** The Metropolitan Government establishes a minimum present value savings threshold of 3.5% of the refunded bond principal amount. The present value savings will be net of all costs related to the refinancing. If present value savings is less than 3.5%, the Metropolitan Government may consider the option value captured as a percent of total savings. If the option value exceeds 70% and present value savings is less than 3.5%, the Metropolitan Government may opt to complete a refunding. The decision to take savings on an upfront or deferred basis must be explicitly approved by the Metropolitan Government.
2. **Restructuring.** The Metropolitan Government will refund debt when it is in the best financial interest of the Metropolitan Government to do so. Such refunding will be limited to restructuring to meet unanticipated revenue expectations, achieve cost savings, mitigate irregular debt service payments, release reserve funds or remove unduly restrictive bond covenants.
3. **Term of Refunding Issues.** The Metropolitan Government will refund bonds within the term of the originally issued debt. However, the Metropolitan Government may consider maturity extension, when necessary to achieve a desired outcome, provided that such extension is legally permissible. The Metropolitan Government may also consider shortening the term of the originally issued debt to realize greater savings. The remaining useful life of the financed facility and the concept of inter-generational equity should guide this decision.
4. **Escrow Structuring.** The Metropolitan Government shall utilize the least costly securities available in structuring refunding escrows. A certificate will be provided by a third party agent, who is not a broker-dealer stating that the securities were procured through an arms-length, competitive bid process (in the case of open market securities), that such securities were more cost effective than State and Local Government Obligations (SLGS), and that the price paid for the securities was reasonable within Federal guidelines. Under no circumstances shall an underwriter, agent or financial advisor sell escrow securities to the Metropolitan Government from its own account.
5. **Arbitrage.** The Metropolitan Government shall take all necessary steps to optimize escrows and to avoid negative arbitrage in its refunding.